

VII. LIST OF THE COLEOPTERA COLLECTED ON THE ISLE OF PINES BY GUSTAV A. LINK, SR., 1912-1913.

BY DR. W. J. HOLLAND, ASSISTED BY DR. E. A. SCHWARZ.

The coleoptera collected by Mr. Link were, with few exceptions, not numerous in individuals representing a given species, and the entire number of species in the collection is so small as to reveal that his activities were somewhat desultory, and that he made no very sustained effort to gather the insects of this order. The fauna of the Isle of Pines, so far as the beetles are concerned, is not essentially different from that of Cuba, but it is highly probable that, when larger collections are made, there will be discovered a number of forms which will be at least sub-specifically distinct from those of the larger island.

After the specimens brought home by Mr. Link had been classified in a preliminary manner by the writer, he invoked the aid of his amiable friend, Dr. E. A. Schwarz, whose knowledge of West Indian beetles is very great, and in a large number of cases the latter was able to specifically determine the minuter and more obscure forms, which the writer lacked time to carefully study.

As a preliminary list of the beetles of the island the present short paper may serve to pave the way for more complete lists in the future, and may serve to awaken some resident of the country to the pleasant task of making a large and complete collection of its coleoptera.

To Dr. L. O. Howard, of the Bureau of Entomology in the Department of Agriculture, thanks are due for having kindly allowed Dr. Schwarz to take up the study of the specimens I submitted to him, and thus to augment the value of this list by his authoritative determinations. To Mr. C. W. Leng, of New York, I am indebted for the determination of the Lampyridæ, of which family he has made a most thorough study, and upon which he is our leading authority.

Order **COLEOPTERA**.

Family **CICINDELIDÆ**.

Genus **CICINDELA** Latreille.

1. **Cicindela tortuosa** Dejean.

*Cicindela tortuosa* DEJEAN, Spéc. Gén. Col., I, 1825, p. 87.

Two specimens collected at Los Indios in October.

## Family CARABIDÆ.

## Genus SELENOPHORUS Dejean.

2. *Selenophorus pyritosus* Dejean.

*Selenophorus pyritosus* DEJEAN, Spéc. Gén. Col., IV, 1834, p. 84.

Three examples, Nueva Gerona, March, 1913.

3. *Selenophorus chalybeus* Dejean.

*Selenophorus chalybeus* DEJEAN, Spéc. Gén. Col., IV, 1834, p. 110.

Two specimens taken at Nueva Gerona in March and one on May 31, 1913.

4. *Selenophorus discopunctatus* Dejean.

*Selenophorus discopunctatus* DEJEAN, Spéc. Gén. Col., IV, 1834, p. 92.

Three specimens, Nueva Gerona, March, 1913. ("Correctly identified." E. A. Schwarz.)

5. *Selenophorus?* sp?

One female example taken at Los Indios in September. ("In this genus it is absolutely necessary to have the male sex to determine even the genus." E. A. Schwarz.)

## Family DYSTICIDÆ.

## Genus LACCOPHILUS Leach.

6. *Laccophilus americanus* Aubé.

*Laccophilus americanus* AUBÉ, Spéc. Gén. Col., Vol. VI, 1838, p. 422.

One specimen, Nueva Gerona, March, 1913.

## Family HYDROPHILIDÆ.

## Genus HYDROPHILUS Fabricius.

7. *Hydrophilus intermedius* Jacquelin-Duval.

*Hydrophilus intermedius* JACQUELIN-DUVAL, in Sagra's Hist. Nat. de Cuba, VII, 1857, p. 22.

A male taken May 3 and a female taken May 8 at Nueva Gerona.

## Genus DACTYLOSTERNUM Wollaston.

8. *Dactylosternum abdominale* (Fabricius).

*Spharidium abdominale* FABRICIUS, Syst. Eleuth., I, p. 94.

Six specimens taken at Nueva Gerona, June 1, 1912.

Family STAPHYLINIDÆ.

Genus CREOPHILUS Kirby.

9. *Creophilus villosus* (Gravenhorst).

*Staphylinus villosus* GRAVENHORST, Mon. Col. Mic., 1806, p. 160.

One example taken at Los Indios, September 19, 1912.

Family PHALACRIDÆ.

Genus PHALACRUS Paykull.

10. *Phalacrus politus* Melsheimer.

*Phalacrus politus* MELSHEIMER, Proc. Acad. Nat. Sci., Phila., II, 1844, p. 102.

One specimen, Nueva Gerona, May 31.

Family COCCINELLIDÆ.

Genus CYCLONEDA Crotch.

11. *Cycloneda sanguinea* (Mulsant).

*Daulis sanguinea* MULSANT, Spéc. des Col., 1850, p. 326.

Ten specimens, the dates of capture ranging from May to November.

12. *Cycloneda oculata* (Fabricius).

*Coccinella oculata* FABRICIUS, Syst. Ent., I, pt. 1, 1792, p. 287.

Three examples, Nueva Gerona, June and July.

Genus SCYMNUS Klug.

13. *Scymnus roseicollis* Mulsant.

*Scymnus roseicollis* MULSANT, Opuscles Entom. III, 1853, p. 142.

One specimen taken at Nueva Gerona, May 8. (*Det.* E. A. Schwarz)

Family HISTERIDÆ.

Genus HISTER Linnæus.

14. *Hister cœnosus* Erichson.

*Hister cœnosus* ERICHSON, in Klug's Jahrbücher der Insektenkunde, 1834, p. 34.

One example, Nueva Gerona, May.

Genus CARCINOPS Marseul.

15. *Carcinops* sp? near *tenellus* Erichson.

One specimen taken at Los Indios, October. ("This may or may not be *C. tenellus*." E. A. Schwarz.)

## Family NITIDULIDÆ.

## Genus CARPOPHILUS Stephens.

16. *Carpophilus dimidiatus* (Fabricius).

*Nitidula dimidiata* FABRICIUS, Syst. Eleuth. I, 1801, p. 354.

Two specimens taken at Los Indios in November. (Det. E. A. Schwarz.)

## Genus PALLODES Erichson.

17. *Pallodes ruficollis* Reitter.

*Pallodes ruficollis* REITTER, Verh. Ver. Brünn, XII, 1873, p. 135.

Six specimens taken at Nueva Gerona, May, 1912.

## Family ELATERIDÆ.

## Genus CALAIS Castelnau.

18. *Calais patricius* (Jacquelin-Duval).

*Alaus patricius* JACQUELIN-DUVAL, in Sagra's Hist. Nat. de Cuba, VII, 1857, p. 33, Pl. VII, fig. 15.

One specimen taken at Los Indios, September.

## Genus HEMIRHIPUS Latreille.

19. *Hemirhipus fascicularis* (Fabricius).

*Elater fascicularis* FABRICIUS, Mantissa, I, 1787, p. 171.

One example, Nueva Gerona, July.

## Genus MONOCREPIDIUS Eschscholtz.

20. *Monocrepidius lividus* (DeGeer).

*Elater lividus* DEGEER, Hist. des Ins., IV, 1774, p. 162, Pl. XVIII, fig. 13.

Two, one from Nueva Gerona, the other from Los Indios, both taken in June.

21. *Monocrepidius bifoveatus* Chevrolat.

*Monocrepidius bifoveatus* CHEVROLAT, Ann. Soc. Ent. France (4), V, 1865, p. 603.

Four specimens, Nueva Gerona, May, and one taken June 1, 1912.

## Genus BLAUTA Leconte.

22. *Blauta cribraria* (Germar).

*Elater cribraria* GERMAR, Zeitschr. Ent., V, 1844, p. 178.

One specimen, Nueva Gerona, June 1, 1912.

Genus DICREPIDIUS Eschscholtz.

23. **Dicrepidius ramicornis** Beauvois.

*Elater ramicornis* BEAUVOIS, Ins. Rec. en Afrique et Amérique, 1805, p. 10.

Two specimens, one taken at Los Indios in September, 1912, and the other at Nueva Gerona in March, 1913. (Det. E. A. Schwarz.)

Genus PYROPHORUS Illiger.

24. **Pyrophorus noctilucus** (Linnaeus).

*Elater noctilucus* LINNÆUS, Syst. Nat., Ed. X, 1750, p. 404.

Eleven specimens, all of which were taken in March, except two, which were taken in July.

25. **Pyrophorus lychniferus** Germar.

*Pyrophorus lychniferus* GERMAR, Zeitschr. Ent., III, 1841, p. 32.

Four examples, two collected at Nueva Gerona in March, and two at Los Indios in May.

26. **Pyrophorus havaniensis** (Castelnau).

*Stilpnus havaniensis* CASTELNAU, Hist. Nat. Col., I, 1840, p. 236.

Seven specimens taken at Nueva Gerona and Los Indios in May.

27. **Pyrophorus hesperus** Candèze.

*Pyrophorus hesperus* CANDÈZE, Monogr. Elater., IV, 1863, p. 18.

One specimen, Nueva Gerona, July.

28. **Pyrophorus** sp.?

Two specimens, Nueva Gerona, July, somewhat resembling *P. physoderus* Germar ("which it certainly is not," E. A. Schwarz), but much narrower, and otherwise differing from that species. They are too small and too narrow to be referred to *P. lychnus* Candèze.

Family BUPRESTIDÆ.

Genus PSILOPTERA Solier.

29. **Psiloptera straba** Chevrolat.

*Psiloptera straba* CHEVROLAT, Ann. Soc. Ent. de France, 1867, p. 575.

One specimen taken at Nueva Gerona, July 31, 1912. (Det. E. A. Schwarz.)

30. **Psiloptera torquata** (Dalman).

*Buprestis torquata* DALMAN, Analecta Entomologica, 1823, p. 54.

One, Nueva Gerona, August 30.

## Genus ACTENODES Lacordaire.

31. *Actenodes sobrina* (Mannerheim).

*Chrysobothris sobrina* MANNERHEIM, Bull. Soc. Imp. Nat. Moscou. VIII, 1837, p. 79.

A single specimen, taken at Nueva Gerona, July 13, 1912.

## Family MALACHIIDÆ.

## Genus ATTALUS Erichson.

32. *Attalus?* sp.?

One specimen, McKinley, July 24, 1912.

The specimen has the tibia armed with a long spur, as is the case with *Attalus* (?) *calcaratus* Gorham (cf. *Biologia Centrali-americana*, Coleoptera, Vol. III, pt. 2, p. 319). ("This little Malachiid cannot even be named generically from the single specimen; at any rate it is not advisable to describe it, though undoubtedly new." *E. A. Schwarz.*)

## Family LYCIDÆ.

## Genus THONALMUS Bourgeois.

33. *Thonalnus aulicus* (Jacquelin-Duval).

*Calopteron aulicum* JACQUELIN-DUVAL, in Sagra's Hist. Nat. de Cuba, VII, 1857, p. 77, Pl. VII, fig. 18.

Two specimens taken May 31 at Nueva Gerona.

## Family LAMPYRIDÆ.

## Genus PYGOLAMPIS Dejean.

34. *Pygolampis apoplectica* (E. Olivier).

*Photinus apoplecticus* E. OLIVIER, Bull. Soc. Zoöl. France, XXIV, 1899, p. 92.

One specimen caught at Nueva Gerona in June. (*Det.* C. W. Leng.)

## Genus CALLOPISMA Motschulsky.

35. *Callopisma demissa* (E. Olivier).

*Lychnuris demissa* E. OLIVIER, Bull. Soc. Zoöl. France, XXIV, 1899, p. 90.

Four examples taken from September to November at Los Indios. (*Det.* C. W. Leng.)

## Genus LCONTEA E. Olivier.

36. *Lecontea gamma* (Jacquelin-Duval).

*Photinus gamma* JACQUELIN-DUVAL, in Sagra's Hist. Nat. de Cuba, VII, 1857, p. 38.

One specimen taken at Los Indios in September. (*Det.* C. W. Leng.)

Family PTINIDÆ.

Genus TETRAPRIOCERA Horn.

37. *Tetrapriocera tridens* (Fabricius).

*Apatе tridens* FABRICIUS, Ent. Syst., I, 1792, p. 362.

Two specimens taken at Los Indios, one in October, the other in November.

Family LUCANIDÆ.

Genus NELEUS Kaup.

38. *Neleus interstitialis* (Eschscholtz).

*Passalus interstitialis* ESCHSCHOLTZ, Nouv. Mém. Soc. Nat. Moscou, I, 1829, p. 18.

A large series of specimens obtained March 27, 1913, from a rotting log on the Caballos Mountains.

Family SCARABÆIDÆ.

Genus ONITICELLUS Ziegler.

39. *Oniticellus cubiensis* Castelnau.

*Oniticellus cubiensis* CASTELNAU, Hist. Nat. Col., II, 1841, p. 10.

One individual, Nueva Gerona, September 10. (*Det.* E. A. Schwarz.)

Genus ATHYREUS MacLeay.

40. *Athyreus castaneus* Guérin-Ménéville.

*Athyreus castaneus* GUÉRIN-MENEVILLE, Icones Reg. Anim., 1838, p. 88, Pl. XXII, fig. 7.

One example, Los Indios, September, 1912.

Genus PHYLLOPHAGA Harris.

41. *Phyllophaga subsericans* (Jacquelin-Duval).

*Ancylonycha subsericans* JACQUELIN-DUVAL, in Sagra's Hist. Nat. de Cuba, VII, 1857, p. 56.

Five specimens, four taken in July and one in March.

Genus RUTELA Latreille.

42. *Rutela formosa* Burmeister.

*Rutela formosa* BURMEISTER, Handb., IV, pt. 1, 1844, p. 383.

One specimen, Nueva Gerona, July 13. It is much darker and greener than the series of specimens in the Ulke Collection from Key West. This is due to the widening of the dark bands and lines on the elytra, these lines being quite narrow in the specimens from Florida.



Genus *DYSCINETUS* Harold.43. *Dyscinetus picipes* (Burmeister).

*Chalepus picipes* BURMEISTER, Handb., V, 1847, p. 79.

Five specimens, three from Nueva Gerona, taken in May, June, and July, and two taken at Los Indios in September.

Genus *STRATEGUS* Hope.44. *Strategus titanus* (Fabricius).

*Scarabæus titanus* FABRICIUS, Syst. Ent., I, 1792, p. 13.

A single female of this species, which is common in Cuba.

45. *Strategus anachoreta* Burmeister.

*Strategus anachoreta* BURMEISTER, Handb., V, 1847, p. 134.

A long series of females and a single male, Caballos Mountains, July. M1. Link informed me that he collected most of the specimens from an abandoned cistern left upon the mountains by turpentine-gatherers. The cistern was open and full of water, into which the beetles had fallen and been drowned, and Mr. Link fished them out.

Genus *PHILEURUS* Latreille.46. *Phileurus quadrituberculatus* (Palisot de Beauvois).

*Scarabæus quadrituberculatus* PALISOT DE BEAUVOIS, Ins. Afr. et. Amer., p. 42, Pl. 1b, fig. 5.

One male found crawling on a log at Nueva Gerona, March 27, 1913.

## Family CERAMBYCIDÆ.

Genus *STENODONTES* Serville.47. *Stenodontes chevrolati* Gahan.

*Stenodontes chevrolati* GAHAN, Ann. & Mag. Nat. Hist. (6) VI, 1890, p. 23.

A long series of both males and females collected from a log of some kind of hard wood, which Mr. Link found rotting on the Caballos Mountains, March 27, 1913. The wood was soft and full of large white grubs, which Mr. Link thinks were the larvæ of this same species. The collector says that if he had possessed an axe at the time he might have gathered a peck of the beetles.



Genus DENDROBLAPTUS Chevrolat.

48. **Dendroblaptus barbiflavus** Chevrolat.

*Dendroblaptus barbiflavus* CHEVROLAT, Rev. Zoöl., 1864, p. 180.

One specimen taken under the bark of a pine tree, June 27, 1912.

In the Academy of Natural Sciences in Philadelphia in the Poey Collection there is a specimen of the species under consideration, bearing the number 956, corresponding in the Manuscript Catalog of the Collection to the name we cite above. There is a broken specimen of the same insect in the collection of the American Museum of Natural History in New York. So far as the writer knows these specimens and the one before him are the only examples of this rare insect available for study at the present time in the United States.

Genus STRONGYLASPIS Thomson.

49. **Strongylaspis corticaria** (Erichson).

*Ergates corticarius* ERICHSON, Schomb. Reise, III, 1848, p. 571.

One specimen taken at Nueva Gerona, July 31.

Genus ELATEROPSIS Chevrolat.

50. **Elateropsis rugosa** Gahan.

*Elateropsis rugosa* GAHAN, Ann. & Mag. Nat. Hist. (6) VI, 1890, p. 28.

Ten specimens, nine taken in June and July, and one in March. They were mostly captured when on the wing.

Genus MONODESMUS.

51. **Monodesmus callidioides** Serville.

*Monodesmus callidioides* SERVILLE, Ann. Soc. Ent. France, 1832, p. 161.

Three specimens taken respectively in March, July, and September.

Genus CRIOCEPHALUS Mulsant.

52. **Criocephalus cubensis** Mutchler.

*Criocephalus cubensis* MUTCHLER, Bull. Am. Mus. Nat. Hist., XXXIII, 1914, p. 345.

Seven specimens, two taken in March, the rest from June to October. (Det. A. E. Schwartz.)

Genus ELAPHIDION Serville.

53. **Elaphidion irroratum** (Linnæus).

*Cerambyx irroratus* LINNÆUS, Syst. Nat. Ed., XII, II, 1767, p. 633.

Four specimens captured in March, June and July.

54. *Elaphidion signaticolle* Chevrolat.*Elaphidion signaticolle* CHEVROLAT, Ann. Soc. Ent. France (4), II, 1862, p. 161.

One specimen taken by Graf, May 8, 1910.

Genus CHLORIDA Serville.

55. *Chlorida festiva* (Linnæus).*Cerambyx festivus* LINNÆUS, Syst. Nat., Ed. X, 1758, p. 389.

One example taken on the wing at Los Indios in September.

Genus NEOCLYTUS Thomson.

56. *Neoclytus cordifer* (Klug).*Clytus cordifer* KLUG, Preis-Verz. Insekten, 1829, p. 13.

One specimen taken at Los Indios in September.

Family CHRYSOMELIDÆ.

Genus GLYPTOSCELIS (*Heteraspis* Blanchard).57. *Glyptoscelis* sp. nov. near *G. nana* Suffrian.

Seven specimens, taken at Nueva Gerona, six in May and one in July. (Det. E. A. Schwarz.)

Genus COLASPIS Fabricius.

58. *Colaspis smaragdula* Olivier.*Colaspis smaragdula* OLIVIER, Entomologie, VI, 1808, p. 883, Pl. I, fig. 9.

One specimen taken at Los Indios in November.

Genus HALTICA Geoffroy.

59. *Haltica jamaicensis* (Fabricius).*Galeruca jamaicensis* FABRICIUS, Ent. Syst., I, Pt. II, 1792, p. 16.

One specimen taken at Nueva Gerona, May 31. (Det. E. A. Schwarz.)

60. *Haltica occidentalis* Suffrian.*Haltica occidentalis* SUFFRIAN, Wieg. Archiv., 1868, I, p. 197.

Six, Nueva Gerona, May. (Det. E. A. Schwarz.)

61. *Haltica (Crepidodera) asphaltina* Suffrian.*Haltica asphaltina* SUFFRIAN, Wieg. Archiv, 1868, I, p. 201.

A single specimen taken at Nueva Gerona. (Det. E. A. Schwarz.)

Genus CEROTOMA Chevrolat.

62. **Cerotoma denticornis** (Fabricius).

*Crioceris denticornis* FABRICIUS, Syst. Eleuth., I, p. 457.

One specimen taken at Nueva Gerona, September 10, 1912. (Det. E. A. Schwarz.)

Family BRUCHIDÆ.

Genus PACHYMERUS Thunberg & Latreille.

63. **Pachymerus gleditsiæ** (Linnæus).

*Bruchus gleditsiæ* LINNÆUS, Syst. Nat., Ed. XII, 1767, p. 605.

Two specimens taken at Los Indios in September. (Det. E. A. Schwarz.)

Genus ZABROTES Horn (*Spermophagus* Schœnherr).

64. **Zabrotes** sp. (?)

Two specimens, Los Indios, November. (Det. E. A. Schwarz.)

Genus BRUCHUS Linnæus.

65. **Bruchus relictus** Suffrian.

*Bruchus relictus* SUFFRIAN, Wiegmann's Archiv, XXXV, 1870, I, p. 156.

Two specimens, Nueva Gerona, May. (Det. E. A. Schwarz.)

Family TENEBRIONIDÆ.

Genus BLAPSTINUS Latreille.

66. **Blapstinus punctatus** (Fabricius).

*Blaps punctata* FABRICIUS, Ent. Syst., I, 1792, p. 109.

A single example, taken at Los Indios in September.

Genus PYANISIA Castelnau.

67. **Pyanisia tristis** Castelnau.

*Pyanisia tristis* CASTELNAU, Hist. Nat. Col., II, 1840, p. 236.

Four specimens taken at Nueva Gerona, March, 1913.

Family MONOMMIDÆ.

Genus HYPORRHAGUS.

68. **Hyporrhagus marginatus** (Fabricius).

*Tritoma marginatum* FABRICIUS, Ent. Syst., II, 1792, p. 506.

*Sphæridium abdominale* FABRICIUS, Syst. Eleuth., I, 1792, p. 94.

One specimen, Los Indios, September. (Det. E. A. Schwarz.)

## Family MORDELLIDÆ.

## Genus MORDELLISTENA Costa.

69. **Mordellistena nigricans** (Melsheimer).

*Mordella nigricans* MELSHEIMER, Proc. Acad. Nat. Sci. Philada., II, 1840, p. 313.

One specimen, Nueva Gerona, May 31.

## Family ATTELABIDÆ.

## Genus ATTELABUS Linnæus.

70. **Attelabus armatus** Gyllenhal.

*Attelabus armatus* GYLLENHAL, in Schœnherr's Gen. Curc., I, 1833, p. 208.

A single specimen taken at Nueva Gerona, June.

## Family OTIORHYNCHIDÆ.

## Genus PACHNÆUS Schœnherr.

71. **Pachnæus litus** (Germar).

*Cyphus litus* GERMAR, Ins. Spec. Nov., 1824, p. 431.

Fifteen specimens taken at Nueva Gerona in June.

## Genus LACHNOPUS Schœnherr.

72. **Lachnopus hispidus** Gyllenhal.

*Lachnopus hispidus* GYLLENHAL, in Schœnherr's Gen. et Spec. Curc., II, 1834, p. 34.

Four examples, Nueva Gerona, June.

## 73. Gen? sp.

("This insect is quite unknown to me and to Mr. Pierce, but a larger series is necessary to determine its generic status." *E. A. Schwarz*.)

One specimen captured at Nueva Gerona in July.

## Family CURCULIONIDÆ.

## Genus BARIS Germar.

74. **Baris azurea** (Boheman).

*Baridius azureus* BOHEMAN, in Schœnherr's Gen. et Spec. Curc., III, 1836, p. 668.

One specimen, Nueva Gerona, June.

75. **Baris exigua** Casey.

*Baris exigua* CASEY, Ann. N. Y. Acad. Sci., VI, 1892, p. 508.

One single individual taken at Los Indios in November.

Genus CALANDRA Clairville.

76. **Calandra oryzae**.

*Curculio oryzae* LINNÆUS, Amœn. Acad., VI, 1763, p. 395.

One specimen, Los Indios, November.

Family IPIDÆ.

Genus XYLEBORUS Eichoff.

77. **Xyleborus fuscatus** Eichoff.

*Xyleborus fuscatus* EICHOFF, Berl. Ent. Zeitschr., 1867, p. 400.

Fourteen specimens taken at Los Indios in October.

78. **Xyleborus** sp.?, near *pubescens* Zimmermann.

Cf. Zimmerman, *Synopsis Scolytidæ*, Trans. Am. Ent. Soc., II, 1868, p. 145.

Thirteen specimens taken at Los Indios in October. (*Det.* E. A. Schwarz.)

79. **Xyleborus** sp.?

One specimen taken at Los Indios in October. (*Det.* E. A. Schwarz.)

80. **Xyleborus** sp?

One specimen from Los Indios, taken in October. (*Det.* E. A. Schwarz.)